BIOSAFETY LEVEL 2/3 FACILITY REQUIREMENTS

Office of Health and Safety

CDC Centers for Disease Cor and Prevention

Laboratories Protect

Personnel

Scientists, technicians, maintenance workers Custodial workers, visitors, students

• Products

Samples, reagents, processes

• Environment

Adjacent non-laboratory areas, other laboratories The community, exterior environment



Office of Health and Safety

CDC termins for Disease Cor and Prevention

Laboratory Hazards

Chemical

Flammables, acids, corrosives, reactive chemicals, carcinogens Mutagens, teratogens, toxins, compressed gases

Radiological

Radionuclides, equipment that produces ionizing radiation

Physica

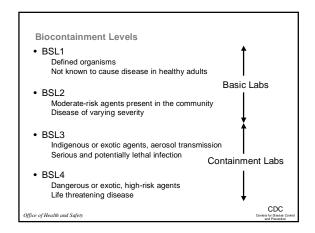
Lasers, magnet fields, moving parts, high voltage, high noise ultraviolet light, extreme heat or cold

Biological

Etiologic agents, material containing etiologic agents Organisms with recombinant DNA, toxins, allergens

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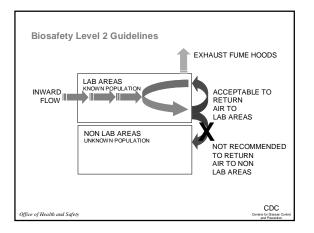
CDC Centers for Disease Con and Prevention

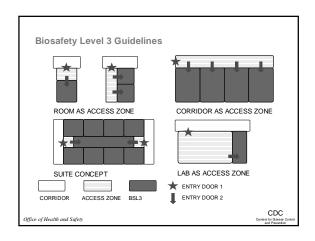


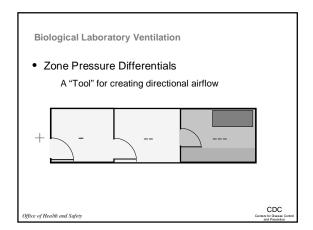
Primary Barriers
BSC's, personnel protective gear, containment equipment
Secondary Barriers
Room, systems
Tertiary Barriers
Containment around systems

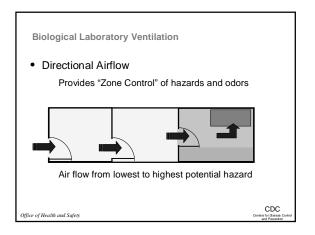
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Biological Laboratory Ventilation

Sealing the Barrier

Building Component Movement

Sealant Failure

Penetration Control

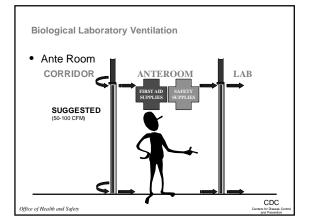
Ducts, pipes, vents and conduits

Doors, door seals

Dynamic Conditions

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CDC Infectious Diseases Laboratory

Technical Criteria BSL3

• HVAC

- Inward directional airflow
- 10 air change minimum
- Manifolded exhaust
- Non filtered exhaust
- Thimble connected BSC

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